Intel® Server System SR9000MK4U Quick Start User's Guide

Thank you for buying an Intel® Server System. The following information will help you install components into your Intel® Server System SR9000MK4U.

This guide and other supporting documents are located on the web at:
http://support.intel.com/support/motherboards/server/chassis/sr9000mk4u

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, please see the Intel® Server System SR9000MK4U Product Guide, available on the Intel® Server System SR9000MK4U Resource CD or on the web at:
http://support.intel.com/support/motherboards/server/chassis/sr9000mk4u/howto.htm

Read all cautions and warnings first before starting your server system integration.

Minimum Hardware Requirements

- *Memory:*
  - Memory Type: Minimum of four 512 MB, 240-pin DDR2 533/667 MHz, Registered ECC DIMMs in each installed memory box. DIMMs must contain x4 bit DRAMs for proper operation.

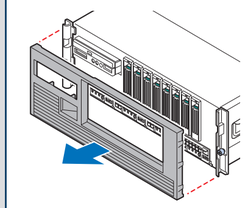
  For a list of supported memory, see the tested memory list at http://support.intel.com/support/motherboards/server/chassis/sr9000mk4u/compat.htm
- *Hard Disk Drives:*
  - SAS
- *Power:*
  - 220V outlet, minimum of one 1390-W power supply
  - 110V outlet, requires both 1390-W power supplies
  - For hot swap power supply support, both power supplies are required and power needs to be sourced from 220V outlets.

1 Preparing the Chassis

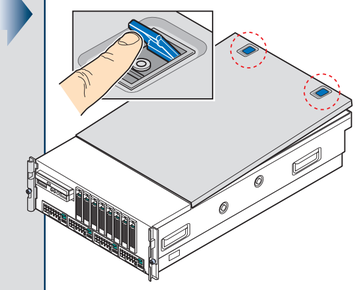
Place your Intel® Server System on a flat anti-static surface to perform the following integration procedures. Always touch the chassis frame first, before reaching inside to make server board connections or to install components.

Observe normal ESD (Electrostatic Discharge) procedures.

2 Remove the Bezel



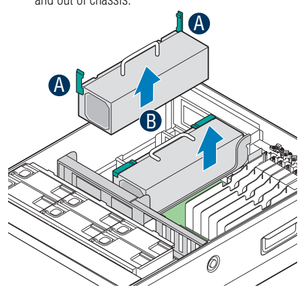
3 Remove Top Cover



4 Remove Power Supply(s)

A Open both power supply latches as shown.

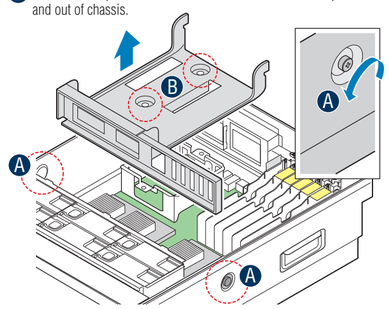
B Grasp handle and pull power supply straight up and out of chassis.



5 Remove Power Supply Box

A Loosen two captive fasteners on chassis sides as shown.

B Loosen two captive fasteners at bottom of PS box and lift up and out of chassis.



IMPORTANT! ⚠

Before proceeding further, do the following:

Check your Intel® Server System for disconnected or loose cables and components that may have occurred during shipping.

Warning

⚠ Read all caution and safety statements in this document before performing any of the instructions. Also see the *Intel® Server Board and Server Chassis Safety Information* document at: http://support.intel.com/support/motherboards/server/sb/cs-010770.htm for complete safety information.

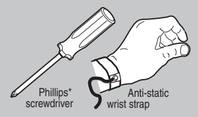
Warning

⚠ Installation and service of this product should only be performed by qualified service personnel to avoid risk of injury from electrical shock or energy hazard.

Caution

⚠ Observe normal ESD [Electrostatic Discharge] procedures during system integration to avoid possible damage to server board and/or other componets.

Tools Required



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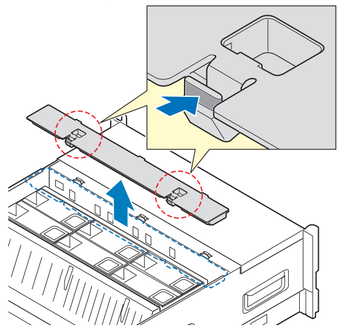
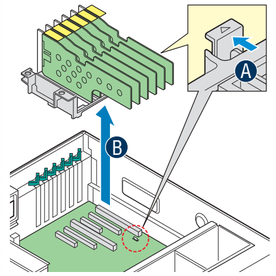
6 Remove Hard Drive Backplane Cover



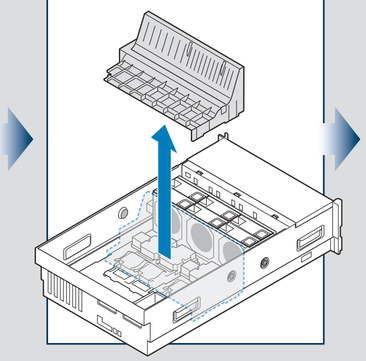
7 Remove PCI Divider

A Release latch as shown.

B Lift PCI divider up and out of chassis.



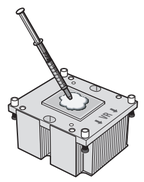
8 Remove Air Flow Guide



9 Processor Install

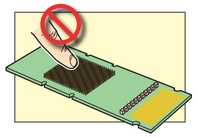
1. Prepare the Heat Sink

Apply Thermal Interface Material (TIM) to the underside of the heat sink.



Notes and Cautions:

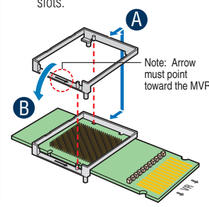
1. Observe normal ESD precautions when handling a processor and components.
2. When unpacking a component, hold by the edges only to avoid touching the gold contacts and wires.



2. Install Processor Pin Shroud

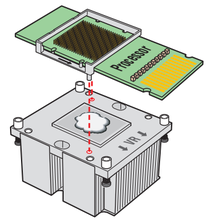
A Attach this side first.

B Carefully place this side over the processor edge until the two pins engage the matching processor slots.



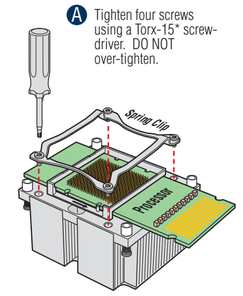
3. Install Processor onto Heat Sink

A Align the two pins of the plastic pin shroud with the heat sink and press together.



4. Attach the Processor Spring Clip

A Tighten four screws using a Torx-15* screwdriver. DO NOT over-tighten.

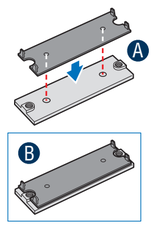


Processor Installation (cont.)

5. Assemble Bolster Plate Components

A Press plastic insulator into two matching bolster plate holes as shown.

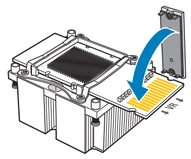
B Correct assembly should look like this.



6. Install Bolster Plate to Processor Board

A Place bolster plate assembly onto MVR end of processor board as shown.

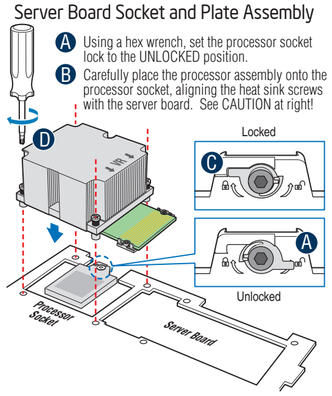
B Make sure plastic clips correctly engage board edges.



7. Install Processor Assembly to the Server Board Socket and Plate Assembly

A Using a hex wrench, set the processor socket lock to the UNLOCKED position.

B Carefully place the processor assembly onto the processor socket, aligning the heat sink screws with the server board. See CAUTION at right!



⚠ CAUTION: Do not allow the processor pins to rub against the processor socket. If the processor does not seat easily, remove the assembly, inspect the pins, socket and heat sink for possible damage, and set the assembly into place again.

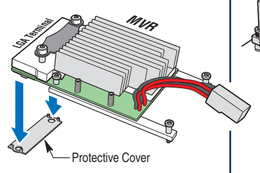
C Use a hex wrench to set the processor socket lock to the LOCKED position.

D Using a Torx-15* screwdriver, tighten the four heat sink screws according to the diagram shown below:

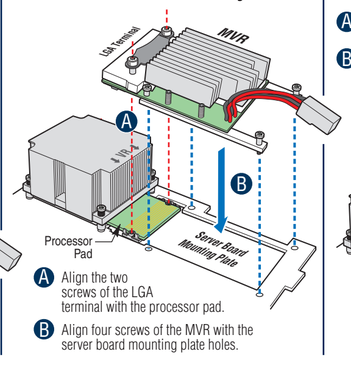
⚠ CAUTION: Do not over-tighten fasteners.

8. Remove the Protective Cover from the LGA Terminal

A Remove the protective cover by releasing the four plastic tabs.



9. Align MVR Assembly with the Processor/Heat Sink Assembly



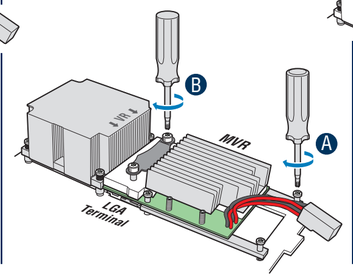
A Align the two screws of the LGA terminal with the processor pad.

B Align four screws of the MVR with the server board mounting plate holes.

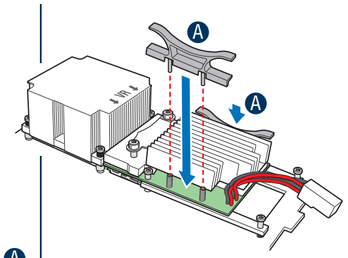
9. Attach MVR to Processor and Server Board

A Attach the four screws of the MVR to the server board mounting plate using a Torx-15* screwdriver.

B Use a Torx-15* screwdriver to secure two screws of the LGA terminal to the processor pad.



9. Install Handles onto the MVR



Each handle has two pins that insert into matching holes in threaded studs on the MVR. *Note that the L-shaped edge goes to the outside of the .*

A Press each handle into place onto the MVR.